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**SAMPLING WORK PLAN FOR
NEW BEDFORD HARBOR**

NEW BEDFORD, MASSACHUSETTS

TDD NO. F1-8302-01

New Bedford
1.75
286559

Submitted by: Gerard Porter
Date: March 8, 1983



SDMS DocID

286559

DATE: Sampling at Acushnet Processing Company and Commonwealth Electric will begin on March 10, 1983. It is anticipated that sampling will not take more than one day.

PERSONNEL: The sampling will be performed by Mark Mengel, Jay DeLuca, and Greg Roscoe. Personnel from Commonwealth Electric will be present when samples are taken from their property, but under no circumstances will they be involved in taking samples.

TECHNICAL APPROACH: The primary objective of this field sampling is to identify chemical contamination from Acushnet Process Company and Commonwealth Electric. Grab soil and surface water sampling locations for Acushnet Processing Company have already been selected by Gerry Sotolongo from EPA Region 1 (see Figure 1). Sampling locations for Commonwealth Electric will be chosen by the sampling team during the site visit, but will include samples from transformer and waste oil storage are. While performing the sampling task, NUS personnel will use the proper EPA procedure and protocol and observe all chain of custody rules (see procedures).

Procedures

1. NEIC. April, 1980. "Chain of Custody"
2. EPA Technical monograph No. 22, June, 1981. "Sampling Handling, Packaging and Shipping Procedures".
3. Decontamination-Sampling equipment: Alconox scrub, water rinse, methanol rinse, water rinse between samples, after last sample.

Given below is the approximate location and number of samples that will be taken.

| <u>LOCATION</u> | <u>ANALYSIS</u> | <u>CONTAINERS PER SAMPLE</u> | <u>TOTAL SAMPLES</u> |
|----------------------------|--------------------------|--------------------------------------|--|
| *Acushnet Processing | PCBs and heavy metals | 1 x 8 oz 2 x 1/2 gal 2 x 1 pt. | 9 grab soil 1 water (from drainage pipe only if present) |
| **Commonwealth Electric | PCBs and heavy metals | 1 x 8 oz | 6 grab soil |

*Split samples for Acushnet Processing Company will not be taken.

**Split samples for Commonwealth Electric will be taken. (Glassware will be supplied by Commonwealth Electric).

A total of sixteen samples will be taken for the entire day, fifteen soil samples and 1 water sample.. Extra glassware will be brought for any additional samples that might be taken.

A visual inspection of the Conrail yard in New Bedford will also be performed. No samples will be taken.

ACCESS REQUIREMENTS: Previous arrangements have been made by Greg Roscoe of NUS to enter the properties owned by Acusnet Process Co., Commonwealth Electric and the Conrail yard in New Bedford

SAFETY PLAN: The Safety Plan will be written by Greg Roscoe, and is attached (Appendix A).

REPORTING REQUIREMENTS:

Field work and analytical results will be summarized in a report prepared by Gregory Roscoe.

This report will include:

1. Site background
2. Description of sampling activities
 - a. date
 - b. number and type of samples taken
 - c. sample locations
 - d. chain of custody
3. Analytical results
4. Summary

ACTIVITIES SCHEDULE*

MARCH 10, 1983

| | |
|--------------------|----------------------------------|
| 8:00- 8:30 | organize and load vehicles |
| 8:30-10:00 | travel to New Bedford |
| 10:00-12:00 | sample at Acushnet Co. |
| 12:00-12:30 | Decon and organize documentation |
| 12:30- 1:00 | Lunch |
| 1:00- 1:30 | travel to Commonwealth Electric |
| 1:30- 3:00 | sample at Commonwealth Electric |
| 3:00- 3:30 | Decon and organize documentation |
| 3:30- 5:00 | travel to Bedford, Massachusetts |

*if time allows, will try to gain information on previous location of Monsanto Tank Car at ConnRail-Railroad Yard

EQUIPMENT NEEDED

Clothing

Neoprene boots ✓ (3 pairs)
~~Tyvek~~ ✓ (2 pairs)
disposable gloves ✓ (8 pairs)
Nitrile gloves ✓ (1 pair)
hard hats ✓ (3)
safety glasses ✓ (1 pair)
field dress ✓

Sampling Equipment

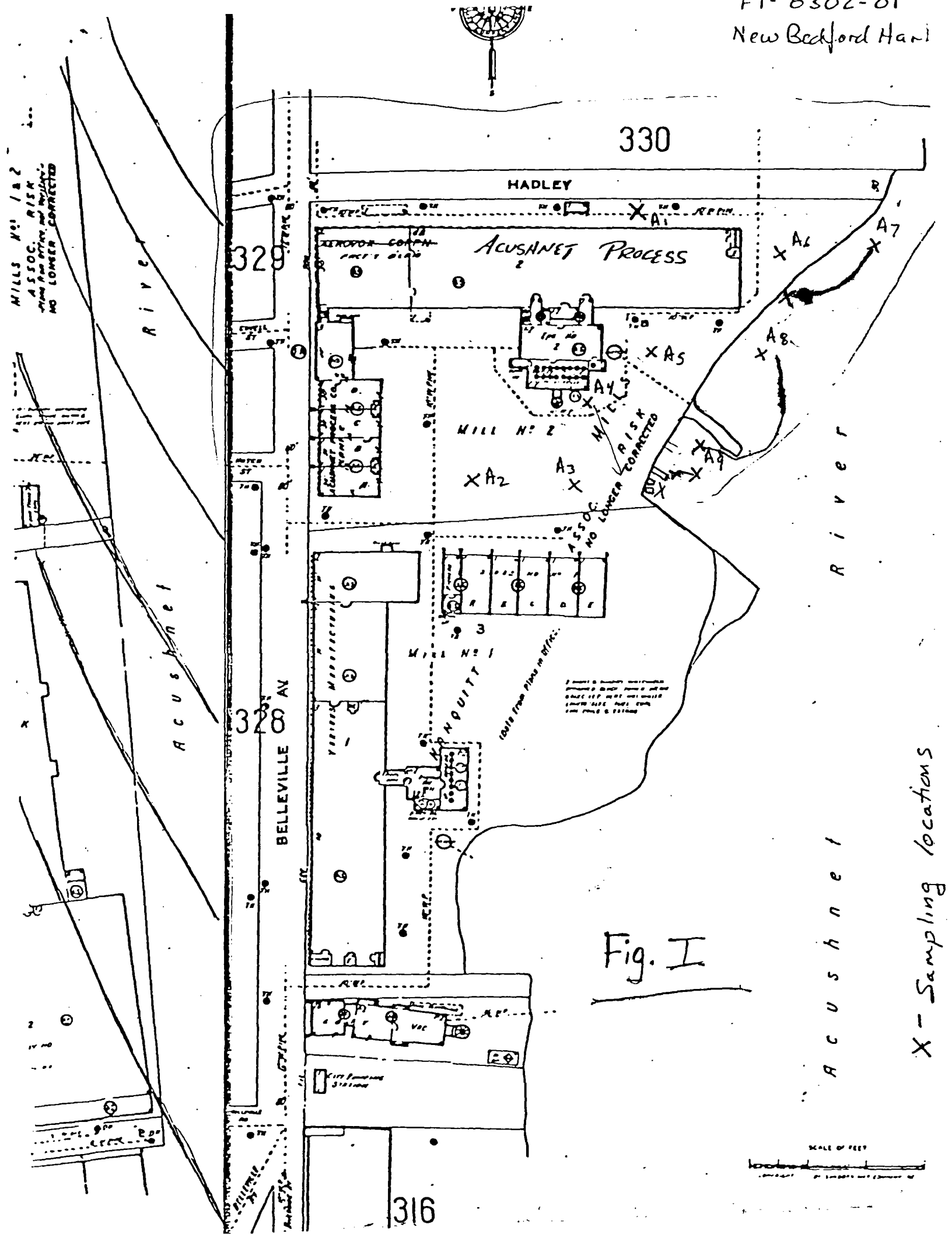
trowel
sample jars (20): 8 oz. wide mouth ✓
2- 1 pt polyethylene containers ✓
2- 1/2 gallon glass jars- Amber ✓
methanol ✓
rope
chain of custody forms ✓
tags ✓
field book ✓
sampling plan ✓
cooler with ice ✓
concentrated HNO₃
film, camera

Decon

water ✓
alconox solution ✓
brush ✓
paper towels
tape

Miscellaneous

TLD badges ✓
Safety Plan ✓
Map of New Bedford



APPENDIX A

SITE VISIT SAFETY PROCEDURES

SITE: New Bedford Harbor

TDD NO.: F1-8302-01

LOCATION: New Bedford, Massachusetts

INSPECTION DATES: ^{March}~~February~~ 10, 1983

SCOPE OF WORK:

1. Collect soil samples from two industrial sites (Acushnet Co. and Commonwealth Electric) which border New Bedford Harbor.
2. Visual survey of Railroad Yard servicing the harbor industries.
3. Will collect three (3) intertidal samples at Acushnet Co.

DESCRIPTION OF AREA TO BE VISITED: will be visiting

1. Acushnet Co.-previously Acushnet Process
2. Commonwealth Electric-previously New Bedford Gas and Edison Light Co.
3. ConRail- Railroad yard

These are all industrial sites which border New Bedford Harbor.

HAZARD EVALUATION:

PCBs and heavy metals have been found in New Bedford Harbor soil and sediments at ppm levels. Air monitoring indicates levels of PCBs in the ambient air at levels which do not present an immediate health hazard. Therefore, the overall hazards associated with these activities are considered to be low with the caveat that care should be taken to minimize exposure to soils, sediments and water in the New Bedford Harbor area, especially during sampling.

RESPIRATORY PROTECTION: Level D

JUSTIFICATION:

Previous monitoring suggests non-hazardous levels of contaminants in ambient air.

DRESS: Field clothes, hard hat, safety glasses, neoprene boots, disposable gloves, nitrile gloves (sampler only), tyvex (sampler only)

JUSTIFICATION

Above dress should adequately protect sampler and crew from exposure and accidental contamination during sampling.

PROCEDURES

Take care to avoid personal contamination from environmental sources.
Decon boots, gloves, discard tyvex between industrial sites.

1. Alconox scrub, water rinse for boots and nitrile gloves.

TEAM MEMBERS:

Gregory Roscoe-Site Manager
Jay DeLuca-Work Party

Mark Mengel-Work Party

EMERGENCY PHONE NUMBERS:

NUS (Bedford) 275-2970
Paul Thomas (703) 552-8802

Dr. Scagliola (301) 256-5186

NEAREST PHONE:

Company phones on-site

Plan Approval:

Gregory A. Roscoe 3/9/83
HSO

Paul F. Gray 3/9/83
RPM